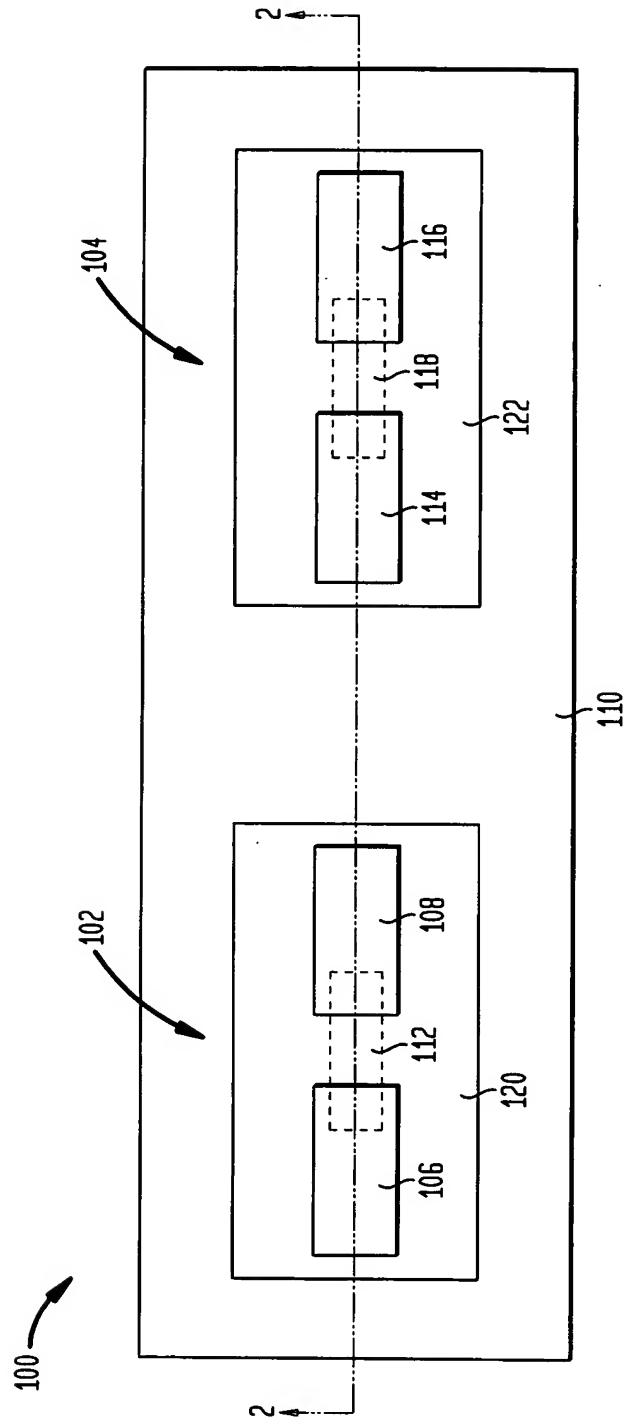




Z. BAO 37-49-1  
SERIAL NO. : 10/671,303  
PETER H. PRIEST (919-806-1600)

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FIG. 1



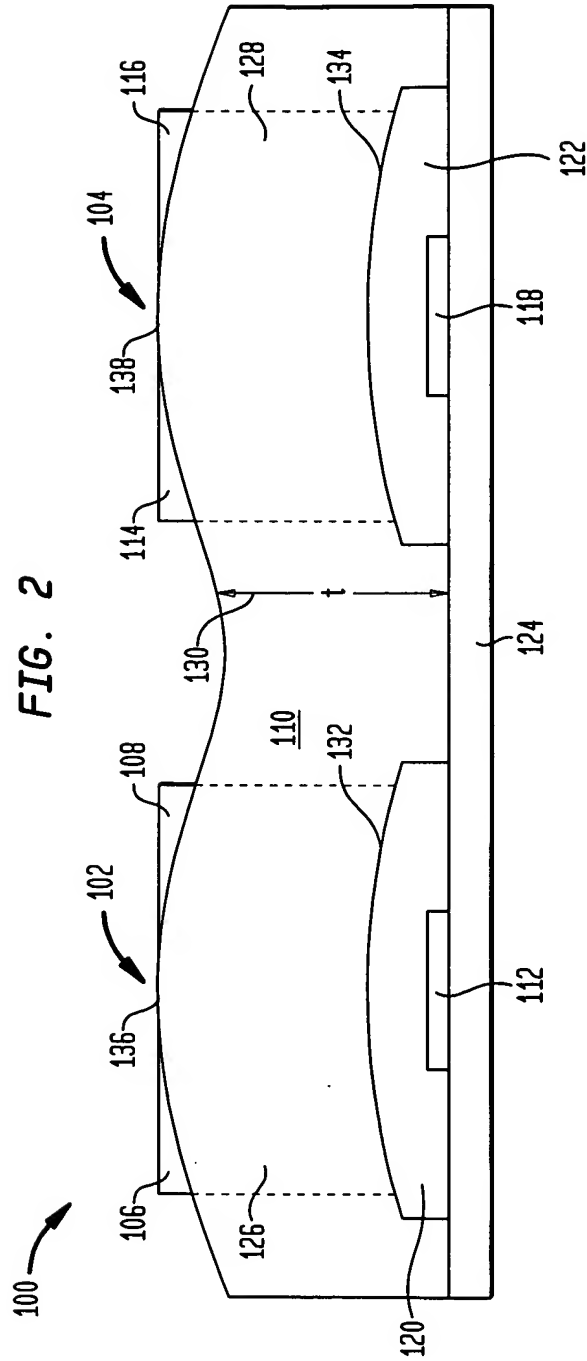
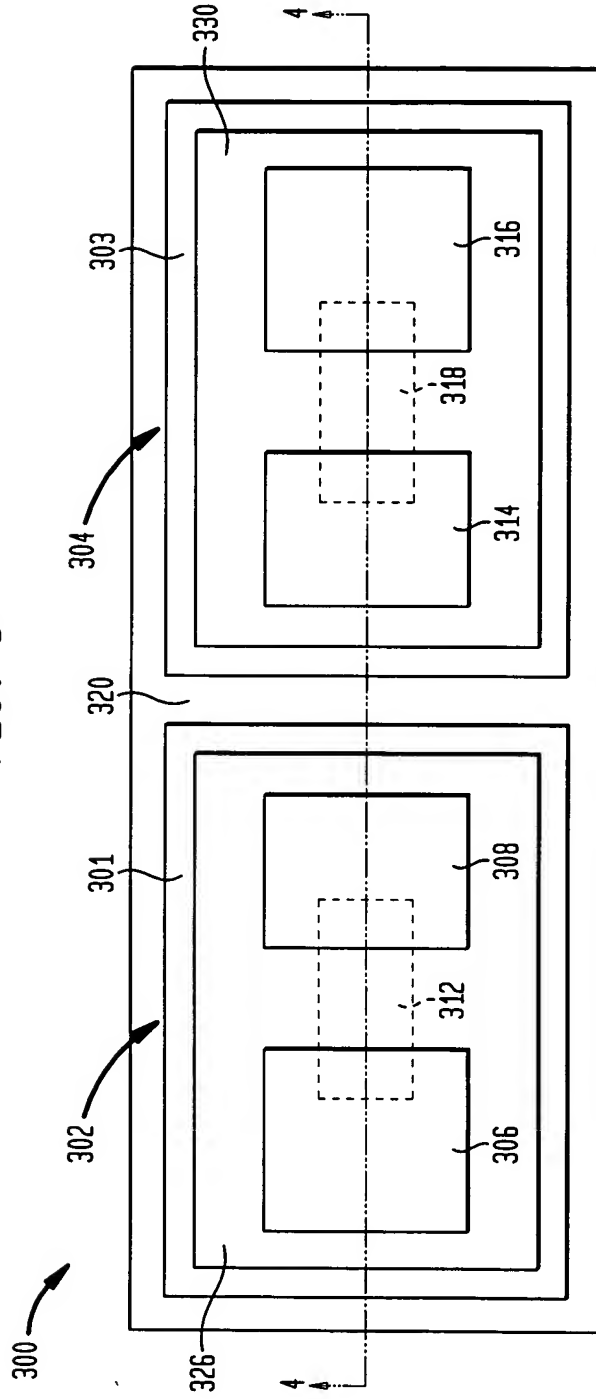


FIG. 3



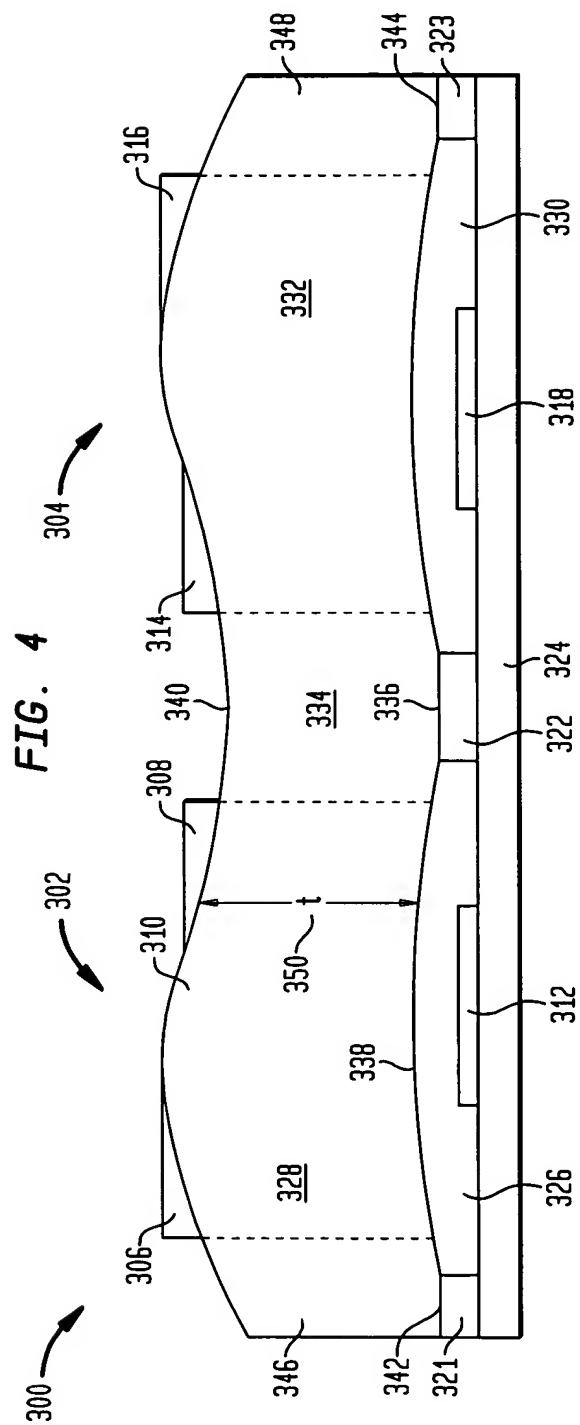
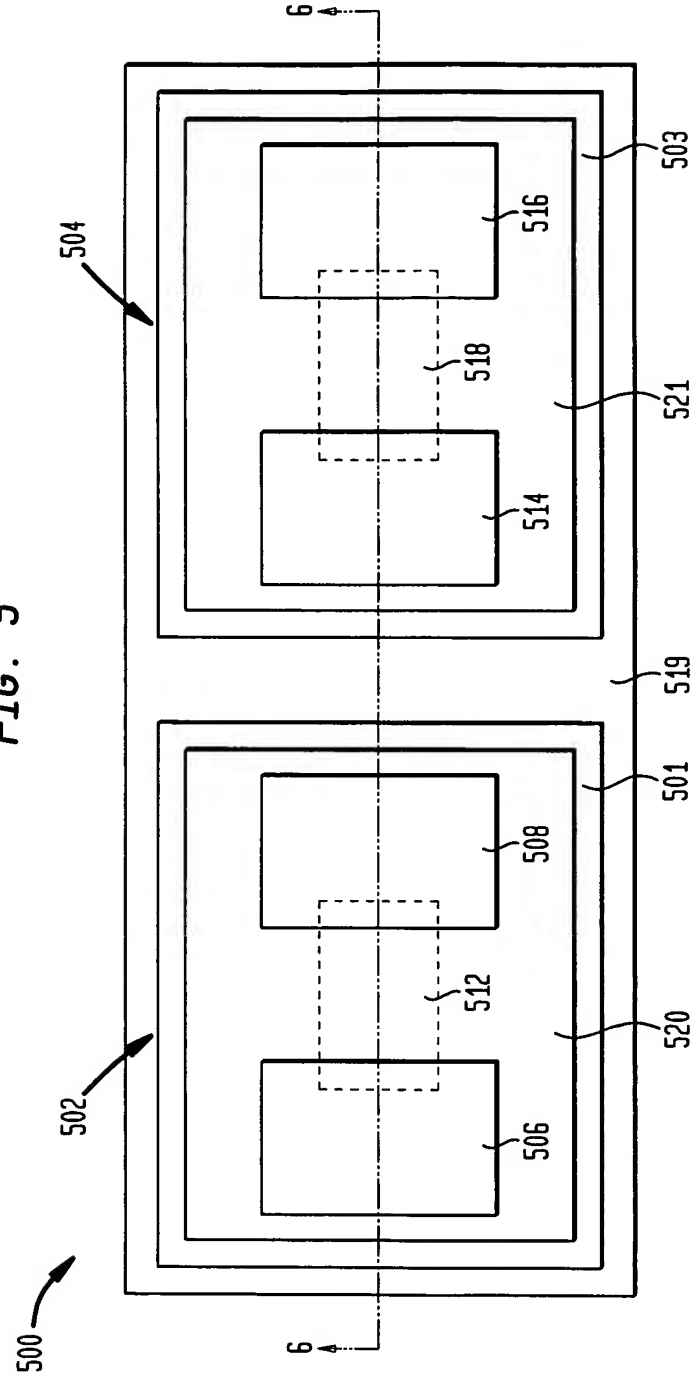


FIG. 5



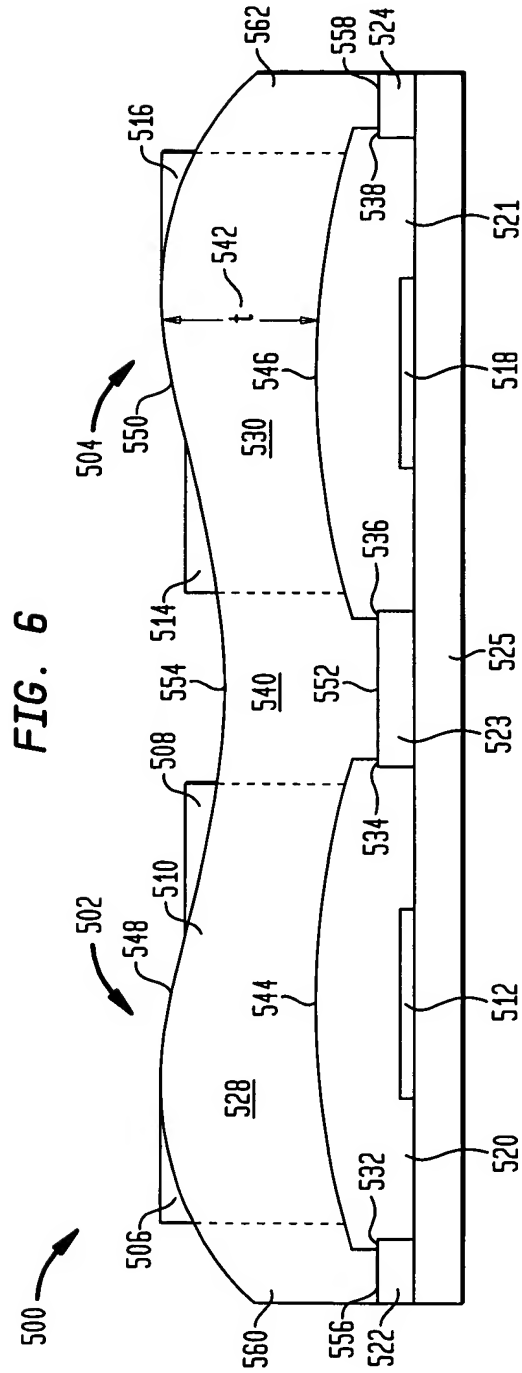
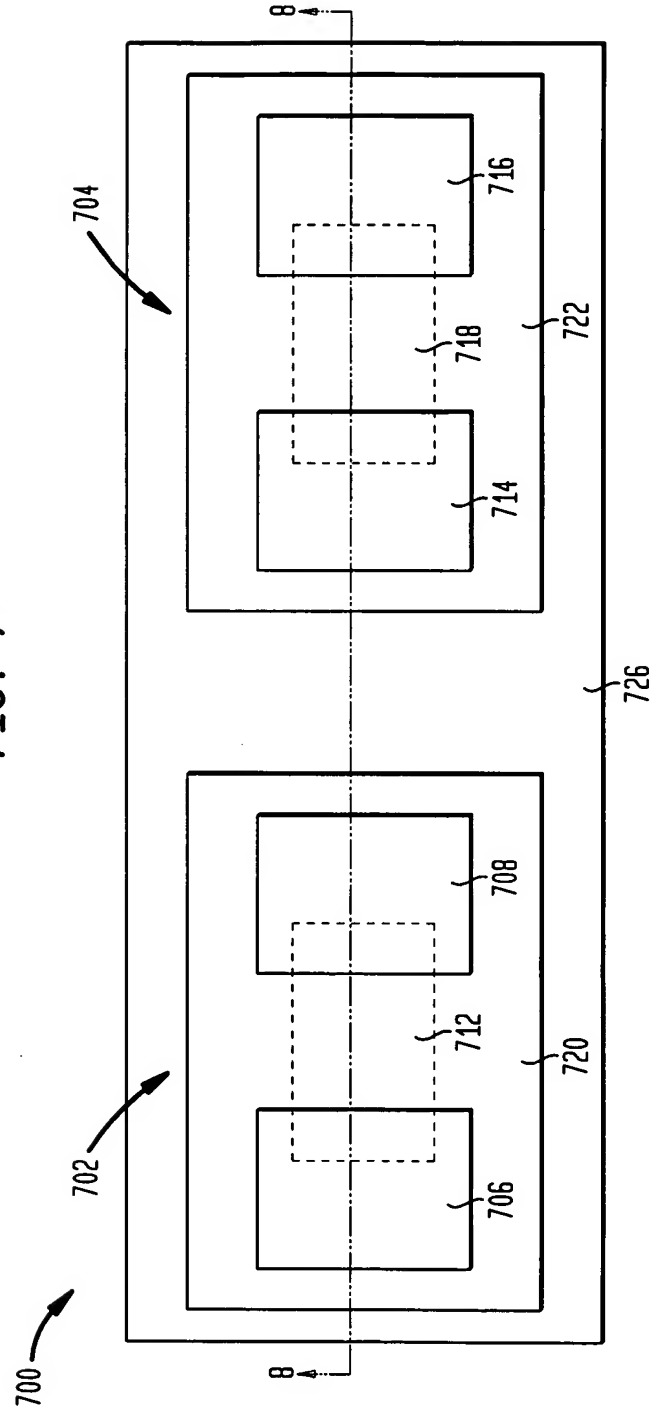


FIG. 7



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FIG. 8

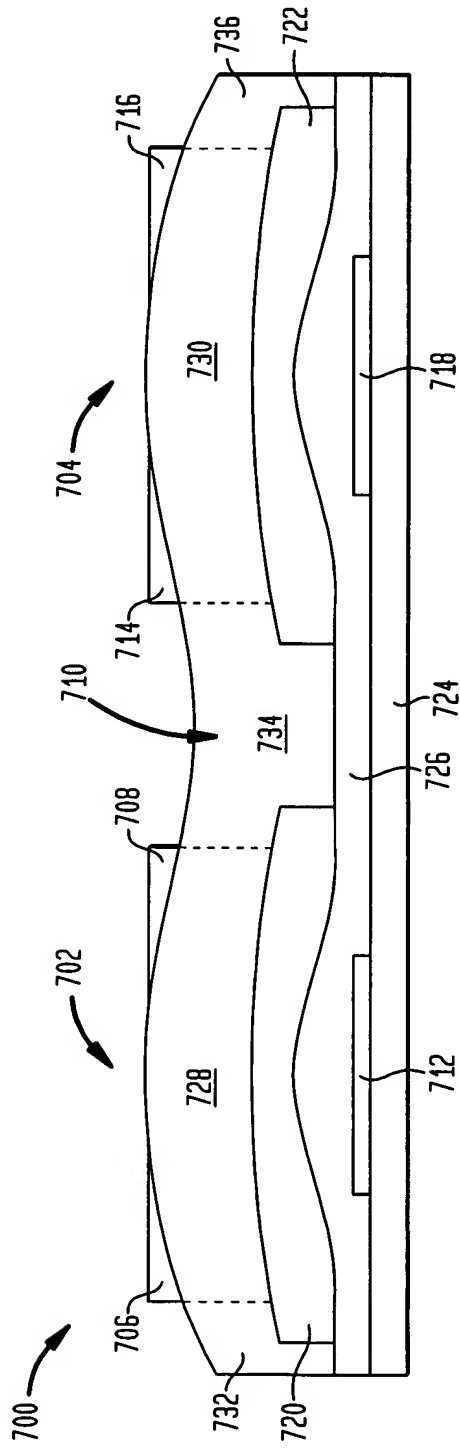
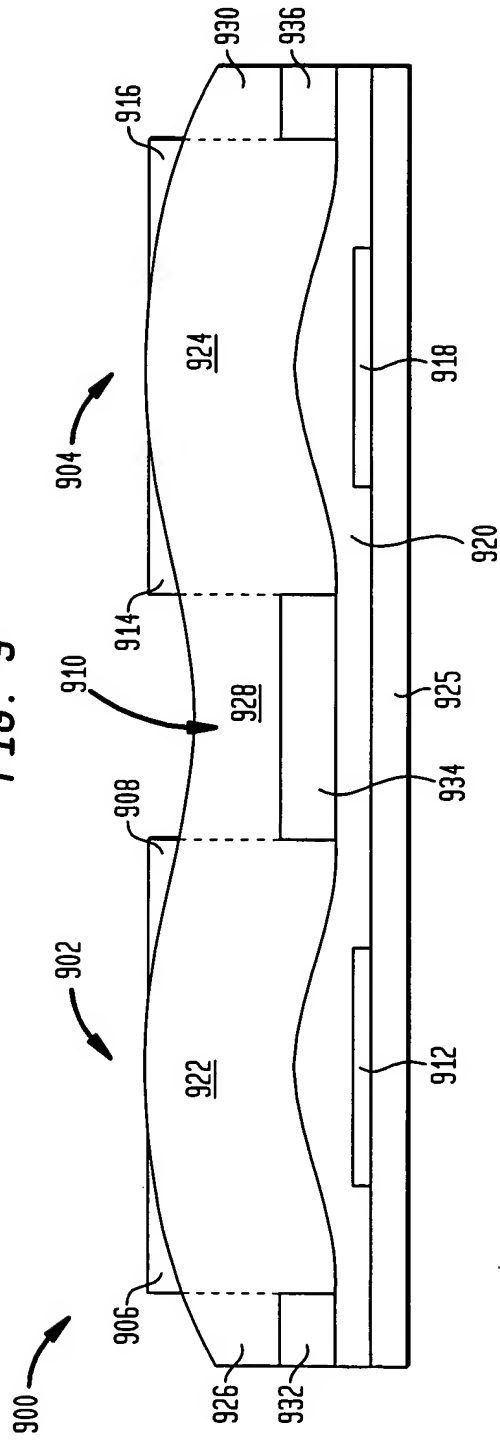
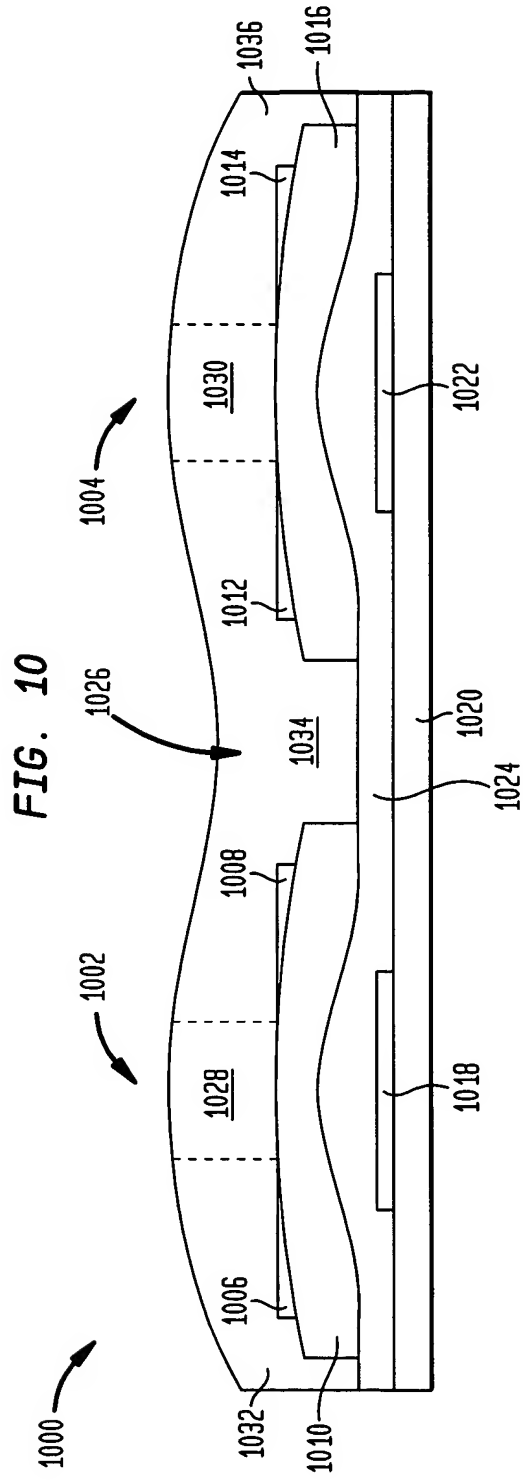




FIG. 9

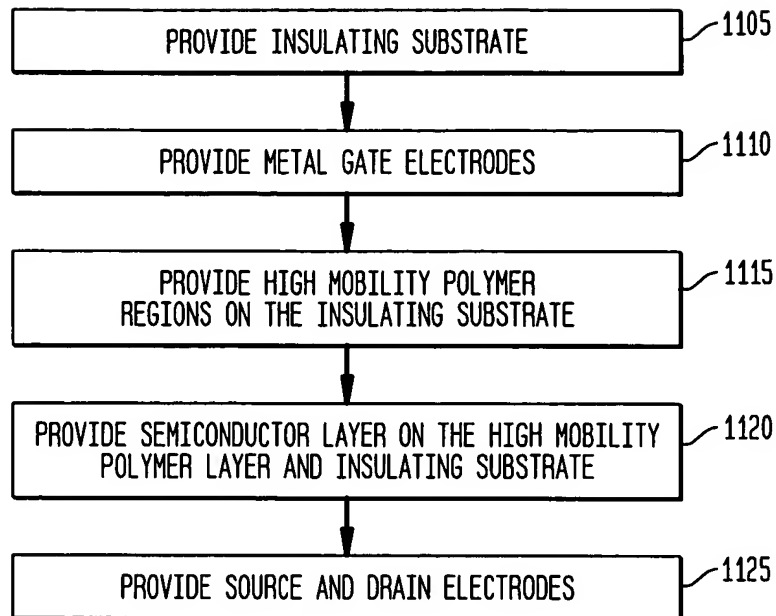




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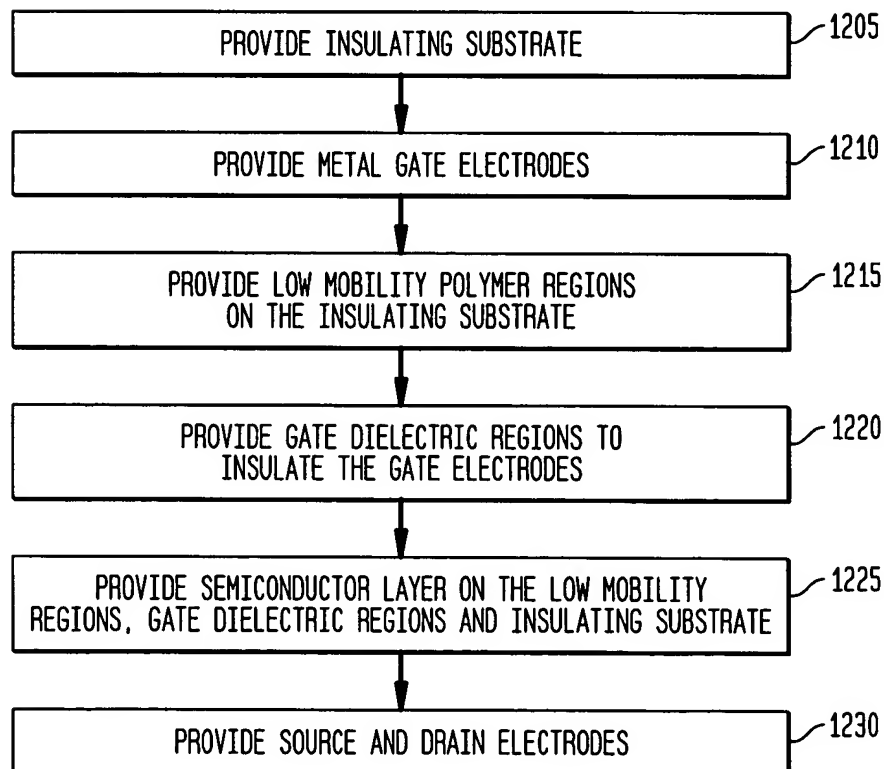
**FIG. 11**

1100 ↗



**FIG. 12**

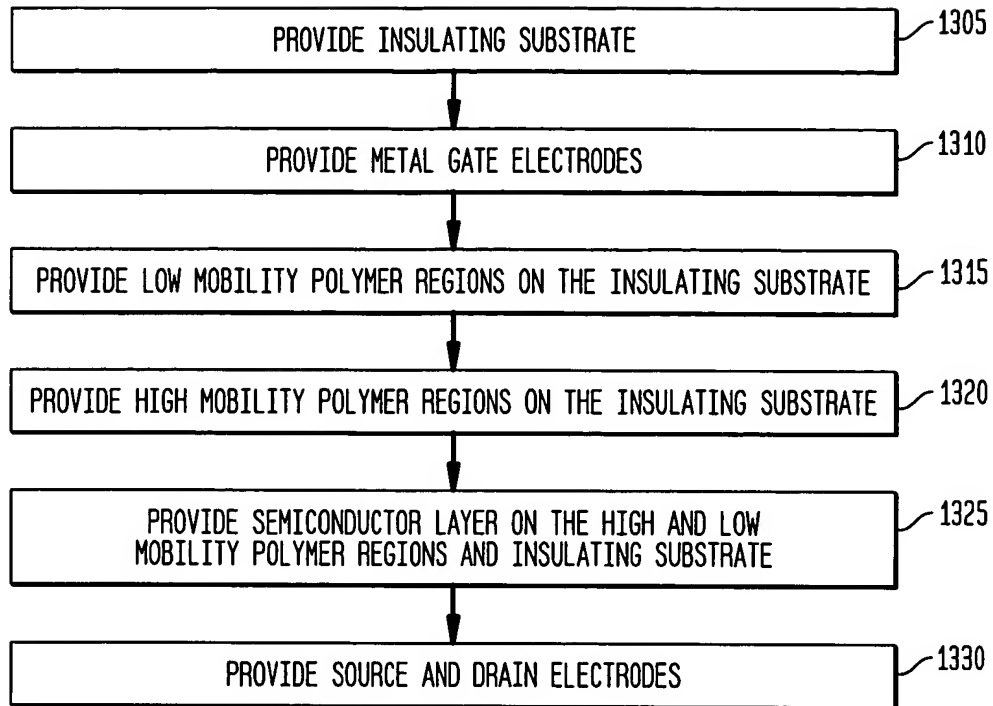
1200 ↗



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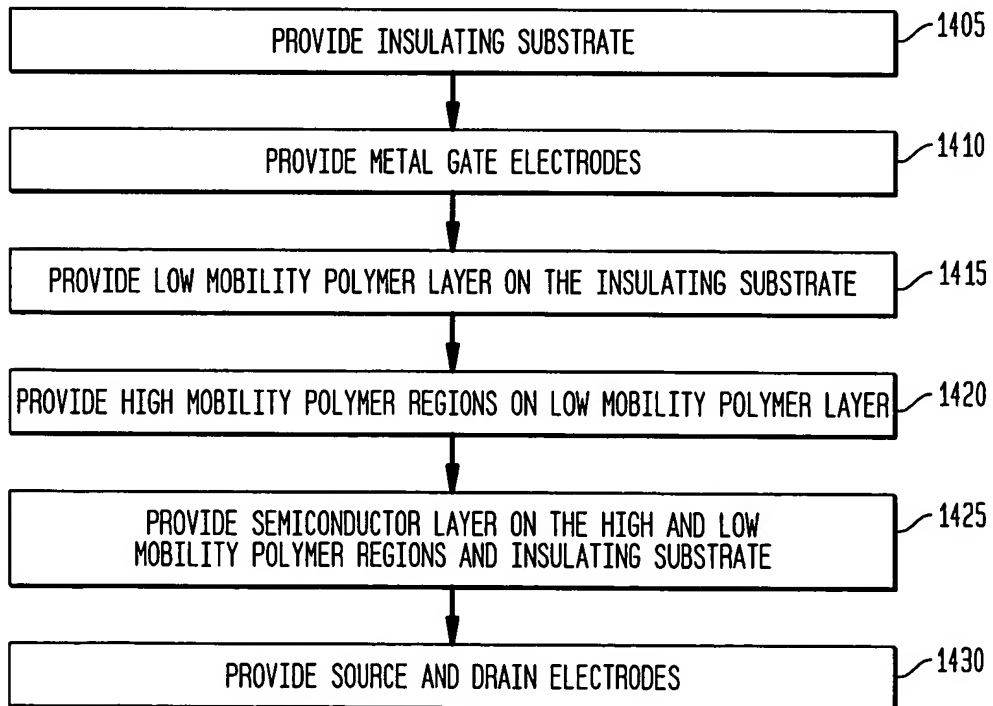
1300

**FIG. 13**



1400

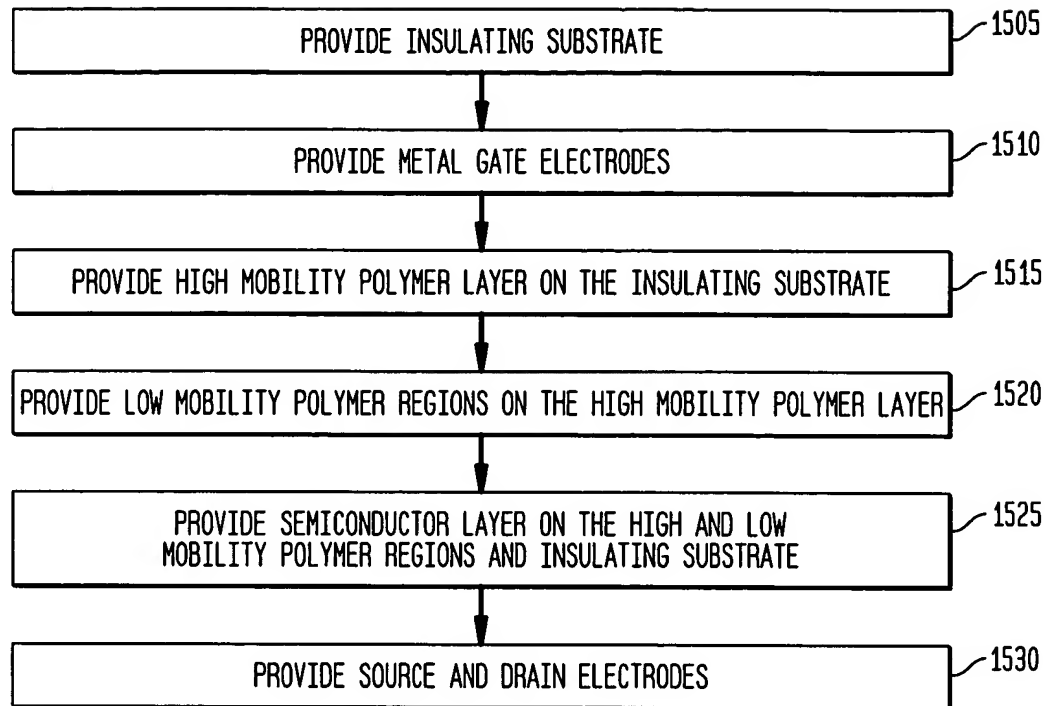
**FIG. 14**



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**FIG. 15**

1500



**FIG. 16**

1600

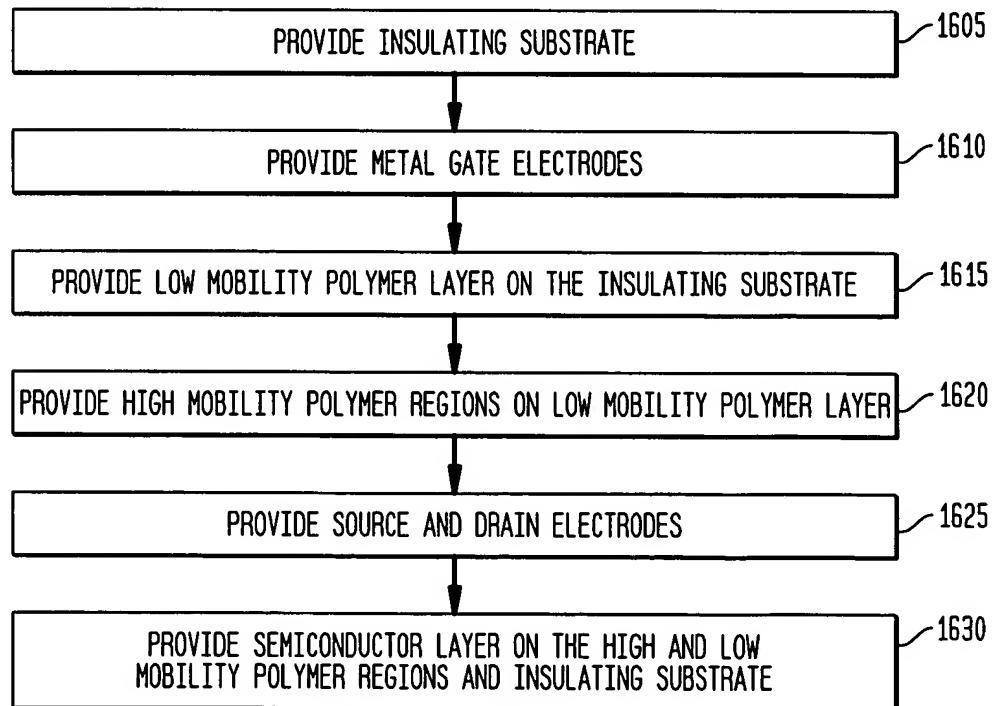


FIG. 17

TABLE 1

semiconductor	dielectric	mobility $\text{cm}^2/\text{Vs}$	S.D. of mobility	V threshold $V$	S.D. of Vt	on/off ratio	subthreshold swing $V/\text{decade}$	# samples	substrate T (if not ambient)
pentacene	PVPyr	1.2E+00	1.5E+00	-22	8.6	1260	9.8	11	60 deg. C
pentacene	PVDFMVE	1.9E-04	3.2E-05	-6.7	0.3	140	8.7	4	60 deg. C
pentacene	PBMA	<1E-05							60 deg. C
pentacene	PVPhenol	4.80E-01	1.50E-01	-19.9	4.2	2.00E+03	7.1	2	60 deg. C
pentacene	PVPhenol	1.10E+00	NA	13.9	NA	2670	2.7	1	80 deg. C
2PTTP2	PBMA	5.0E-05	7.4E-06	-14	4.1	16	5.8	5	
2PTTP2	PVPyr	4.1E-04	1.9E-04	41	3.8	523	12.6	3	
2PTTP2	PVDFMVE	2.5E-03	2.3E-03	-2.1	3.4	1320	6.2	4	
DHFTTF	PBMA	5.9E-05	5.0E-05	-9.7	14.7	19.8	24.3	3	
DHFTTF	PVPyr	3.4E-04	1.6E-04	-7.1	7.3	68	25.5	4	
DHFTTF	PVDFMVE	<1E-05							